

line 5, "the", second occurrence, has been deleted; and

line 9, "specificity" has been changed to --specificity--.

Page 107, line 28, "intergrated" has been changed to --integrated--.

Page 108, line 9, "aliquote" has been changed to --aliquot--; and

5 line 20, "Contructs" has been changed to --Constructs--.

Page 110, line 20, "analysis" has been changed to --analysis--;

line 33, "senseitivy" has been changed to --sensitivity--; and

line 35, "andGFP" has been changed to --and GFP--.

Page 111, line 24, "cultur," has been changed to --culture,--; and

10 line 26, "ligandwas" has been changed to --ligand was--.

Page 112, line 2 "senseitivy" has been changed to --sensitivity--.

Page 133, line 6 (claim 22), "sySTEm" has been changed to --system--; and

line 23 (claim 27), "Gbg" has been changed to --Gβγ --; and "STEpS" has
been changed to --steps--.

15 Page 144, line 20 (claim 55), "23" has been changed to --22--.

Page 145, line 25 (claim 61), "23" has been changed to --22--.

Page 148, line 1, "23" has been changed to --22--.

The aforementioned corrections to pages 144, 145 and 148 are evident at least,
for example, from the specification at page 107, lines 1-31 (Example 12).

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Formal Drawings

Formal drawings in accordance with the guidelines of Rules 11 and 26.3(a) are
submitted herewith.

FIG.1

Sequence alignments of N-terminal regions of Ga subunits and N-terminal sequences of GPA₄₁- Ga hybrid proteins.

A. Alignment of GPA1 with Ga Subunits

GPA1

MGC.TVSTQTIGDESDPFLQNKRANDVIEQSLQLEKQDKNEIKLLLLGAGESGKSTVLKQLKLHQ.....

GaS

MGCLGTS..KTEDQRNEEKAQREANKKIEKQLQDKQVYRATHRLLLLGAGESGKSTIVKQMRILHV.....

Gai2

MGC.TVS.....AEDKAAAEERSKMIDKNLREDGEKAAREVKLLLLGAGESGKSTIVKQMKIIE.....

Gai3

MGC.TVS.....AEDKAAVERS KMIDRN LREDGEKAAREVKLLLLGAGESGKSTIVKQMKIIE.....

Ga16

MARSLTRCCPWCLTEDEKAAARVDQEI NRILLEQKKQDRGELKLLLLGPGESGKSTFIKQMRIHG.....

B. GPA₄₁- Ga Hybrids

GPA₄₁ - GaS

MGC.TVSTQTIGDESDPFLQNKRANDVIEQSLQLLKORDKNEIKLLLLGAGESGKSTIVKQMRILHV.....

GPA₄₁ - Gai2

MGC.TVSTQTIGDESDPFLQNKRANDVIEQSLQLEKQDKNEVKLLLLGAGESGKSTIVKQMKIIE.....

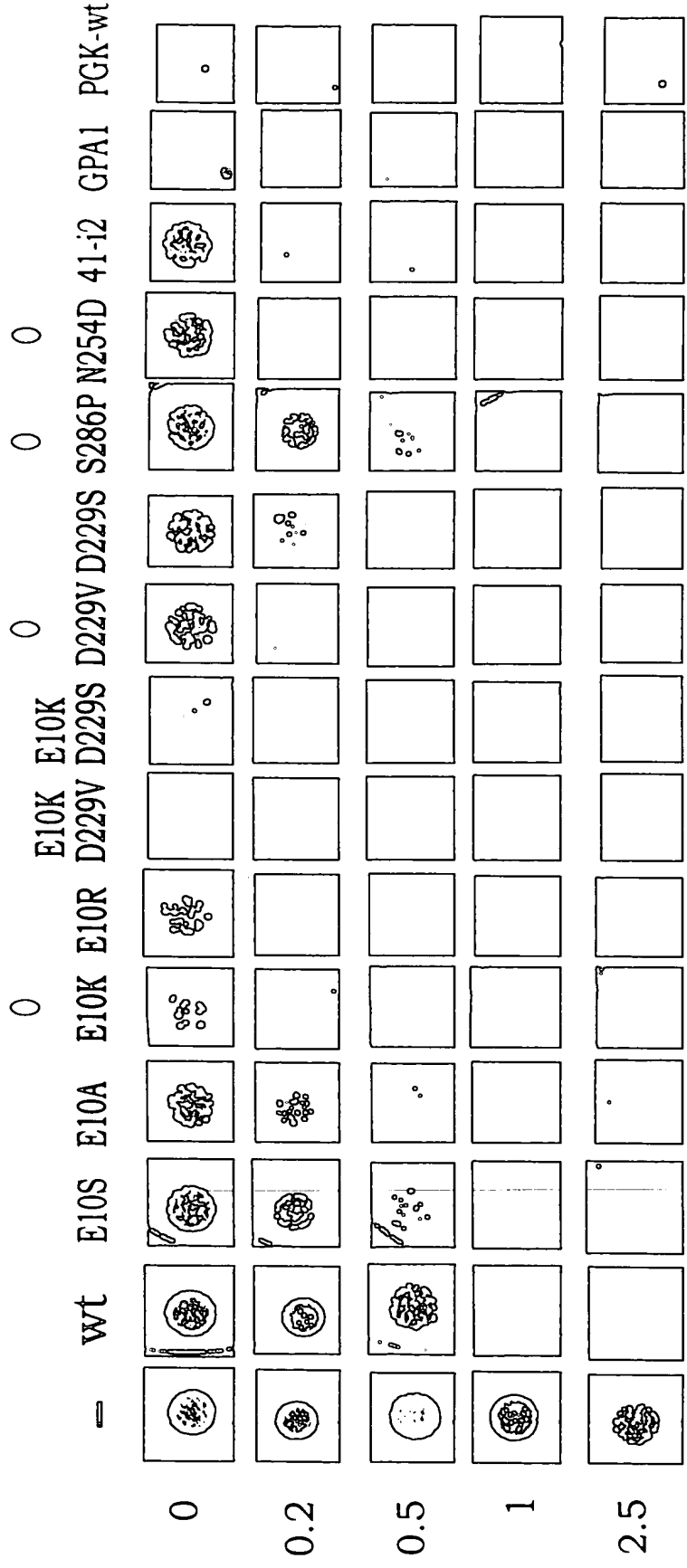
GPA₄₁ - Gai3

MGC.TVSTQTIGDESDPFLQNKRANDVIEQSLQLEKQDKNEVKLLLLGAGESGKSTIVKQMKIIE.....

GPA₄₁ - Ga16

MGC.TVSTQTIGDESDPFLQNKRANDVIEQSLQLEKORDKNEIKLLLLGPGESGKSTFIKQMRIHG.....

FIG.2



mM AT
 Coupling of Gas mutants to yeast G β y